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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/936,344	09/24/1997	PAUL MICHAEL EMBREE	080398.P115	9648
7590 09/15/2005			EXAMINER	
BLAKELY SOKOLOFF TAYLOR AND ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR			MICHALSKI, JUSTIN I	
			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90025			2644	
			DATE MAILED: 09/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summary	08/936,344	EMBREE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Justin Michalski	2644				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 Au	iaust 2005					
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
olosed in accordance with the practice under 2	x parte Quayle, 1935 C.D. 11, 45	13 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>2-4 and 6-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-4 and 6-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
	·					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

DETAILED ACTION

1. Applicant's arguments, see page 5 and 6, filed 8/11/05, with respect to the rejection(s) of claim(s) 2-4 and6-13 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Oxford.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 2, 3, 6, 7, 9, 13, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Oxford (US Patent 5,577,044).

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Regarding Claim 3, Oxford discloses a method for allocating real-time data from a plurality of audio channels in a system having a first processor and a second processor, the method comprising: providing a plurality of memory banks of semiconductor memory devices (104), each memory bank being accessible to the first (102) and second (103) processors for operations selected from the group comprising read and write operations (col. 4, lines 20-22); and storing subsets of said audio data in the plurality of memory banks, the subsets corresponding to different groups of audio channels (Fig. 3 discloses different audio channels).

Regarding Claim 6, Oxford discloses a system having first and second buses for processing real-time audio data from a plurality of audio channels, the system comprising: a first processor (102) and a second (103) processor coupled to said first and second busses (bus connecting 102 and 103 to bus 101), respectively; a plurality of memory banks (104) of semiconductor memory devices coupled to said first and second buses for storing said audio data (Col. 4, lines 17-18), said plurality of memory banks being accessible to the first and second processors for operations selected from the group comprising read and write operations (RAM or dynamic storage 104; col. 4, lines 17-21), said plurality of memory banks storing subsets of audio data (Col. 4, lines 17-24), said subsets corresponding to different groups of audio channels (Fig. 3 discloses different audio channels); and a plurality of selectors coupled said first and second buses to select said memory banks for access by one of said first and second processors (it is inherent that dynamic memory such as 104 will read or written based

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on a selector in processors 102 and 103 in order to store or retrieve information in memory 104).

Regarding Claims 2 and 7, it is inherent that dynamic memory such as 104 will read or written based on a selector in processors 102 and 103 in order to store or retrieve information in memory 104.

Regarding Claim 9, Oxford discloses 104 is dynamic memory (Col. 4, lines 13-25).

Regarding Claims 13 and 15 it is inherent that processors (102 and 103) will perform read operations and write operations on the memory banks in order to write and read data to and from the memory banks.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Van Nostrand (WO 90/07184).

Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose one subset of said audio data corresponds to even-numbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels. Both Oxford and Van Nostrand discloses reception and

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transmission of data. Van Nostrand discloses separating data into Odd and Even data (Fig. 1) in order to provide a method for handling high speed data in an apparatus of having a plurality of banks of memory (page 3 lines 1-5). Therefore it would have been obvious to one of ordinary skill in the art that the time the invention was made to use odd and even data transmission to provide a way of transmitting data at a high rate of speed as taught by Van Nostrand.

6. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Fukami et al. (Hereinafter "Fukami") (US Patent 5,313,339).

Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose storing the subsets in an interleaving manner. Fukami also discloses a method for transmitting and processing of data at a high rate of speed including storing right and left channels of digital audio in an interleaved process (Col. 4, lines 17-26) in order to processing signals at a high rate of speed. Therefore it would have been obvious to one of ordinary skill in the art that the time the invention was made to use interleaving of data in order to transmit and process data at a high rate of speed as taught by Fukami.

7. Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Shores (US Patent 5,194,996).

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Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose storing one of the subsets of audio data in one of the memory banks and reading data from a second memory bank. Shores discloses interleaved audio data that is stored in one memory half and recovered from a second half of memory (Col. 10, lines 17-29). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store one of the subsets of audio data in one of the memory banks and reading data from a second memory bank to interleave the audio data to enhance the decoding and reproduction as taught by Shores (Col. 9, lines 1-3).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Michalski whose telephone number is (571)272-7524. The examiner can normally be reached on M-F 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571)272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JIM

September 7, 2005

VIVIAN CHIN

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